

In the Claims:

Please amend the claims as follows:

1. (Canceled)
2. (Currently Amended) The method of claim 4 5, wherein the directory number is a part of the personal identification number.
3. (Currently Amended) The method of claim 4 5, wherein the address code includes at least one of a Media Access Control address to the IP phone, an IP address to the IP phone, and set type of the IP phone.
4. (Currently Amended) The method of claim 4 5, wherein step (c) is repeated in the event that the personal identification number fails authentication in step (d).
5. (Currently Amended) A method for an IP phone switch to register an IP phone over a network, the IP phone having an unique address code within the network, comprising the steps of
  - (a) associating a personal identification number with a directory number at the IP phone switch;
  - (b) establishing communications between the IP phone and the IP phone switch;

- (c) receiving the address code of the IP phone and the personal identification number from the IP phone;
- (d) authenticating the personal identification number;
- (e) associating the directory number with the address code for routing and switching call traffic to and from the IP phone,
- (f) wherein step (c) is repeated in the event that the personal identification number fails authentication in step (d); and
- (g) The method of claim 4, further comprising a step to determine determining if step (d) has been repeated in excess a predetermined number of consecutive times due to the access code failing the personal identification number failing authentication and response sending a lock set command to the IP phone.

6. (Currently Amended) An IP phone switch, comprising
- a database having personal identification numbers associated directory numbers;
  - a communications system for establishing communications between IP phones and the IP phone switch; and
  - an OAM for associating directory number with address codes of IP phones for routing and switching call traffic to and from the IP phones;
- wherein, after communications is established between an IP phone and the IP phone switch, an address code and a personal identification number is ~~send~~sent from the IP phone to the IP phone switch for